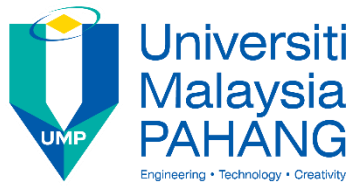


# e-KHAIRAT SYSTEM

NUR FARAELYA AZIRA BINTI SAMAN

BACHELOR OF COMPUTER SCIENCE  
(GRAPHICS & MULTIMEDIA TECHNOLOGY)

UNIVERSITI MALAYSIA PAHANG



## **SUPERVISOR'S DECLARATION**

I hereby declare that I have checked this project and in my opinion, this project is adequate in terms of scope and quality for the award of the degree of Bachelor of Computer Science (Graphics and Multimedia Technology) with Honours.

---

(Supervisor's Signature)

Full Name : DR. ZURIANI BINTI MUSTAFFA

Position : SENIOR LECTURER

Date : 10 JANUARY 2019



## **STUDENT'S DECLARATION**

I hereby declare that the work in this thesis is based on my original work except for quotations and citations which have been duly acknowledged. I also declare that it has not been previously or concurrently submitted for any other degree at Universiti Malaysia Pahang or any other institutions.

---

(Student's Signature)

Full Name : NUR FARAELYA AZIRA BINTI SAMAN

ID Number : CD15051

Date : 10 JANUARY 2019

e-KHAIRAT SYSTEM

NUR FARAELYA AZIRA BINTI SAMAN

Thesis submitted in fulfillment of the requirements

for the award of the degree of

Bachelor of Computer Science (Graphic & Multimedia Technology)

Faculty of System Computer Software Engineering

UNIVERSITI MALAYSIA PAHANG

JANUARY 201

## **ACKNOWLEDGEMENTS**

Alhamdulillah and praised to Allah S.W.T that I finally able to finish my Final Year Project with the grant and blessing from Him. First of all, I wish my sincere greeting to my beloved family for give me continuous support and encouragement for me to complete my project.

A special thanks to Dr. Zuriani Binti Mustaffa, my supervisor for her countless hours for reading, checking, guiding, encouraging and most of all patience throughout the entire process to make sure the project is completed on time. I would like to thank all my friend and lecturer that always give support and help for me.

Lastly, I would like to express my gratitude to Universiti Malaysia Pahang that gave me opportunity to gain more knowledge and experience by allow me to conduct this project.

## **ABSTRACT**

With the growth of technology, people nowadays prefer to find and use something that can help and make their daily life become easier. As a Muslim, we also need a system or a web-based system that can become a platform that will be able to manage for Muslim death which called e-khairat. Khairat derive from Arabic word which mean charity such as donation and so on. There are many types of khairat such as khairat that manage Muslim death in order to complete the demands of fardhu kifayah. This e-khairat system is develop in order to replace the existing manual system due to limitations of manual system. This objective of this e-khairat system is to develop a web-based system that will be able to manage Muslim death matters and update to the user for latest information about Muslim death. Rapid Application Development (RAD) is the methodology that been used to develop this system. This RAD consist of four stages or phases which are requirement planning stages, user design stages, rapid construction stages and transition stages. The proposed e-Khairat system is expected to inform and update the community about the Muslim death. In a nutshell, this e-Khairat system help to provides an efficient solution to manage this e-Khairat system.

## **ABSTRAK**

Selaras dengan kemajuan teknologi masa kini, masyarakat memilih untuk mencari dan menggunakan sesuatu yang dapat membantu dan menjadikan kehidupan seharian mereka lebih mudah. Sebagai orang Islam, kami juga memerlukan sistem atau sistem yang berasaskan web yang boleh dijadikan platform untuk menguruskan kematian orang Islam yang dipanggil sebagai e-khairat. Khairat berasal daripada perkataan Arab yang membawa maksud kebajikan seperti derma, sedekah dan sebagainya. Terdapat pelbagai jenis khairat antaranya khairat kematian Khairat kematian bertujuan untuk menguruskan, memudahkan, dan membantu dalam aspek pengurusan jenazah orang Islam bagi menyempurnakan tuntutan fardhu kifayah. Sistem e-khairat ini dibangunkan untuk menggantikan kekurangan yang sedia ada pada sistem manual. Objektif sistem ini adalah untuk membangunkan suatu sistem yang berasaskan web yang mampu untuk menguruskan segala mengenai kematian orang Islam dan mengemaskini informasi mengenai kematian orang Islam kepada pengguna sistem. Pembangunan Aplikasi Rapid (RAD) adalah kaedah yang digunakan untuk membangunkan sistem ini. RAD ini merangkumi empat fasa atau peringkat iaitu peringkat perancangan keperluan, peringkat reka bentuk, peringkat pembinaan pesat, dan peringkat peralihan. Secara konklusinya, sistem ini memberikan penyelesaian yang efektif untuk menguruskan sistem e-Khairat ini.

## **TABLE OF CONTENT**

<b>TITLE PAGE</b>	
<b>ACKNOWLEDGEMENTS</b>	<b>i</b>
<b>ABSTRACT</b>	<b>ii</b>
<b>ABSTRAK</b>	<b>iii</b>
<b>TABLE OF CONTENT</b>	<b>iv</b>
<b>LIST OF TABLES</b>	<b>vii</b>
<b>LIST OF FIGURES</b>	<b>viii</b>
<b>LIST OF ABBREVIATIONS</b>	<b>x</b>
<b>CHAPTER 1 INTRODUCTION</b>	<b>11</b>
1.1 Background of Study	11
1.2 Problem Statements	12
1.3 Aim and Objectives	14
1.4 Scope	14
1.5 Significance	15
1.6 Thesis Organization	15
<b>CHAPTER 2 LITERATURE REVIEW</b>	<b>17</b>
2.1 Introduction	17
2.2 Previous/Existing System	17
2.2.1 e-Khairat: Sistem khairat Kematian Penduduk Islam Qaryah Masjid Al-Faizin	18
2.2.2 e-Khairat: Sistem Khairat Kematian Masjid Kota Damansara	21
2.2.3 Khairat Kematian Surau Al-Ikhlas	23



2.3	Comparison between Existing Systems	26
<b>CHAPTER 3 METHODOLOGY</b>		<b>27</b>
3.1	Introduction	27
3.2	Methodology	27
3.2.1	Advantages of Rapid Application Development	28
3.2.2	Stages/Phases in Rapid Application Development	28
3.2.3	Modules	39
3.2.4	User Interface	40
3.3	Software and Hardware	41
3.4	Gantt Charts	42
<b>CHAPTER 4 RESULTS AND DISCUSSION</b>		<b>44</b>
4.1	Introduction	44
4.2	Implementation	45
4.3	User Interface Design	45
4.3.1	Homepage / Main page Page	46
4.3.2	Contact Information Page	47
4.3.3	Login Page	48
4.3.4	Sign up Page	48
4.3.5	Administrator Page	49
4.3.6	Member Page	53
4.4	User Manual	55
4.5	Advantages and Limitation of the Proposed e-Khairat	55
4.6	Strength, Weakness, and Challenge during Development Process	57
<b>CHAPTER 5 CONCLUSION</b>		<b>58</b>

5.1	Introduction	58
5.2	Discussion Based on User Acceptance Test (UAT)	58
5.3	Research Constraint	59
5.3.1	Constraints	59
5.3.2	Development Constraints	59
5.4	Future Work	60
	<b>REFERENCES</b>	<b>61</b>
	<b>APPENDIX 1 storyboard</b>	<b>62</b>
	<b>APPENDIX 2 er diagram</b>	<b>84</b>
	<b>APPENDIX 3 User manual</b>	<b>85</b>
	<b>APPENDIX 4 user acceptance test (uat)</b>	<b>92</b>

## **LIST OF TABLES**

Table 1.1	Summary of the problem statement	13
Table 2.1	Comparison between existing system	30
Table 3.1	Data Dictionary for table Announcement	38
Table 3.2	Data Dictionary for table Member Information	39
Table 3.3	Data Dictionary for table Claim	40
Table 3.4	Data Dictionary for table Fee	40
Table 3.5	Data Dictionary for table Money In	41
Table 3.6	Data Dictionary for table Money Out	41
Table 3.7	Data Dictionary for table Administrator	41

## LIST OF FIGURES

Figure 2.1	Registration Module	23
Figure 2.2	Announcement Module	23
Figure 2.3	Information Module	24
Figure 2.4	Check ID Module	24
Figure 2.5	Main Page	26
Figure 2.6	Module	26
Figure 2.7	Background Image	27
Figure 2.8	Main Page	28
Figure 2.9	Role of team and calendar	28
Figure 2.10	How to report	29
Figure 3.1	Work Breakdown Structure	33
Figure 3.2	Context Diagram for e-Khairat System	35
Figure 3.3	Use Case Diagram for e-Khairat System	36
Figure 3.4	Dialogue Diagram for the member of e-Khairat System	37
Figure 3.5	Gantt Charts	46
Figure 3.6	Gantt Charts	47
Figure 4.1	Code is develop using Notepad++	49
Figure 4.2	Homepage	50
Figure 4.3	Contact Page	51
Figure 4.4	Login Page	52
Figure 4.5	Signup Page	53
Figure 4.6	Admin Main Page	53
Figure 4.7	Announcement Page for Admin	54
Figure 4.8	List of Member for Admin	55
Figure 4.9	Money in/out Process	55
Figure 4.10	Fee Process	56
Figure 4.11	Claim Process	56
Figure 4.12	Main Page for Member	57
Figure 4.13	Member Information	58
Figure 4.14	Fee Information	58
Figure 4.15	example of pop-up message to inform user	59
Figure 4.16	example of email that recall by this system	60



## **LIST OF ABBREVIATIONS**

RAD	Rapid Application Development
UD	User Design
JAD	Joint Application Design
RC	Rapid Construction
TR	Transition
HTML	Hypertext Markup Language
MySQL	My Structured Query Language
PHP	PHP Hypertext Preprocessor

## **CHAPTER 1**

### **INTRODUCTION**

#### **1.1 Background of Study**

With the growth of technology, people nowadays prefer to find and use something that can help and make their daily life become easier. As a Muslim, we also need a system or web-based system that can become a platform that will manage for Muslim death. Through this system, people will be able to know information that related with the Muslim death easily by using technologies such as mobile.

E-Khairat system is a web-based application that is proposed for Pertubuhan Khairat Kematian Gambang Damai. This is to help the community to manage Muslim death. This system will be developed to replace the manual system that has been used a long time ago in order to share and deliver information about Muslim death easily. Old or manual system that has been used before need to share and deliver information manual through a person. This process will take longer time for the information to be deliver. By using this e-khairat system, the information that need to deliver is faster. All the information about the Muslim death in the selected area will be view in this system. The data about the member will be stored and managed by using the e-Khairat web-based system. In order to view the data about the member, the user needs to register first. This is to ensure the privacy of the data.

In this e-Khairat web-based system, member also can view all the information in the announcement about the Muslim death easily. This show that this system helps to manage the Muslim death easily.

## **1.2 Problem Statements**

This system will be developed due to the problem that occur when using manual system. When using manual system, user that want to be a member need to register manually by filling in the manual form. Unfortunately, the problem occurs when the administrator needs to key in the data that consists a large amount of user. The administrator needs to key in the data one by one into the system to register the user as member. This process will take longer time because a lot of data that need the administrator to key into the system. There is also a possibility for the administrator to key in the wrong data into the system.

Besides, when the user register using manual system which the data is save in the paper, the possibility of losing the user data is also high. When the data is loss, the user that already fill in the form to become a member need to fill in the form again. Manual system also lacks in terms or searching the information. Manual system needs more effort to find the document. The member also needs to find the information by their own or through others person. The member might not know anything that happen if there is no information from other person. The user will miss the latest information about the Muslim death that happen on that time. This show that, the manual system is lack of information. Table 1.1 shows the summary of problem statement.



Table 1.1 Summary of the problem statement

No	Problem	Description	Effect
1.	Fill in the form manually	The user needs to register as a member manually by fill in the form.	This will take long time for the administrator to key in all the data into the system that consist a large amount of user. There is also a possibility to key in the wrong data into the system.
2.	Loss of user data easily	The possibility of losing the user data is high.	Loss of user information. User need to fill in the form again in order to register as a member.
3.	Lack of information	The user does not know any information about the Muslim death easily.	The user will miss the latest information and user might not know anything that happen on that time.

## REFERENCES

- Automated Architecture. (2005). Rapid Application Development, 1–5.
- Beynon-Davies, P., Carne, C., Mackay, H., & Tudhope, D. (1999). Rapid application development (RAD): an empirical review. *European Journal of Information Systems*, 8(3), 211–223. <https://doi.org/10.1057/palgrave.ejis.3000325>
- Chapter 7 Color and Graphics. (n.d.), 305–350.
- Design, U. I. (n.d.). Lesson Basic Concepts in User Interface Design.
- Development, R. A., Do, W., Need, Y., History, T., & Aspects, E. (2000). What is Rapid Application Development? *Thesis*, 1–34.
- Development, R. A., Do, W., Need, Y., History, T., & Aspects, E. (2000). What is Rapid Application Development? *Thesis*, 1–34.
- Hirschberg, M. A. (1998). Rapid Application Development (RAD): A Brief Overview. *Software Technology News*, 2(1), 1–16.
- Meier, B. J. (1988). ACE : A Color Expert System for User Interface Design. *UIST '88 Proceedings of the 1st Annual ACM SIGGRAPH Symposium on User Interface Software*, 117–128. <https://doi.org/10.1145/62402.62424>
- Nieminen, M. (1997). Guidelines for User Interface Design, 33–38.
- Paap, K. R. (2001). User Interface Design. *International Encyclopedia of the Social & Behavioral Sciences*, 16104–16107. <https://doi.org/10.1002/0470018860.s00054>
- Palmquist, M. S., Lapham, M. A., Miller, S., Chick, T., & Ozkaya, I. (2013). Parallel Worlds: Agile and Waterfall Differences and Similarities. *SEI, Carnegie Mellon University*, (October), 1–101. <https://doi.org/CMU/SEI-2013-TN-021>
- Planning, R., & Design, U. (n.d.). 2 . 1 The RAD life cycle composes of four stages :, 1–15.
- Thakur, D. (2014). Advantages and functions of DBMS. *Advantages and Functions of DBMS*, (July), 1–3.
- User Interface Design Designing effective interfaces for software systems Importance of user interface. (n.d.), 1–20.
- Wiesmann, S., Stopper, R., Sieber, R., & Schnabel, O. (2012). Graphical User Interface - Layout and Design, 45.